

WHAT IS CLAIMED IS:

1. A dual-mode scanning apparatus capable of scanning both transmissive and reflective objects, comprising:

a scanning platform for placing thereon an object to be scanned;

a carriage module arranged under said scanning platform, and comprising an active light source for emitting light, the light being reflected by said object to enter said carriage module in a reflective scanning mode; and

a light-guiding member arranged over said scanning platform for guiding the light emitted by said active light source to said object, the light penetrating through said object to enter said carriage module in a transmissive scanning mode.

2. The dual-mode scanning apparatus according to claim 1 wherein said scanning platform is transparent.

3. The dual-mode scanning apparatus according to claim 1 wherein said active light source is a linear lamp.

4. The dual-mode scanning apparatus according to claim 1 wherein said active light source is a U-shaped lamp.

5. The dual-mode scanning apparatus according to claim 1 wherein said object is placed at a designated region on said scanning platform in said transmissive scanning mode.

6. The dual-mode scanning apparatus according to claim 5 wherein said carriage module further comprises a light mask covering a portion of said active light source corresponding to said designated region in said transmissive scanning mode in order to prevent said object from direct illumination of said active light source.

7. The dual-mode scanning apparatus according to claim 5 wherein said object

is positioned with a holder that is attachable to and detachable from said designated region of said scanning platform.

8. The dual-mode scanning apparatus according to claim 5 wherein said active light source comprises a plurality of segmental illuminating units, at least one of which is positioned corresponding to said designated region and turned off in said transmissive scanning mode in order to prevent said object from direct illumination of said active light source.

9. The dual-mode scanning apparatus according to claim 8 wherein said plurality of illuminating units are arranged as a linear light source.

10. The dual-mode scanning apparatus according to claim 8 wherein said plurality of illuminating units are arranged as a U-shaped light source.

11. The dual-mode scanning apparatus according to claim 1 wherein said light-guiding member comprises:

at least one reflective element for reflecting the light emitted by said active light source in a specified direction; and

a light-guiding plate arranged in said specified direction relative to said reflective element for receiving the light emitted by said active light source and reflected by said reflective element, and scattering the light to penetrate through said object in said transmissive scanning mode.

12. The dual-mode scanning apparatus according to claim 1 being an image scanner.

13. The dual-mode scanning apparatus according to claim 1 being a multifunction peripheral machine.

14. A dual-mode scanning apparatus capable of scanning both transmissive and reflective objects, comprising:

a scanning platform for placing thereon an object to be scanned;

a carriage module arranged under said scanning platform, and comprising an active light source for emitting light, the light being reflected by said object to enter said carriage module in a reflective scanning mode; and

a light-guiding member arranged over said scanning platform for guiding the light emitted by said active light source to said object, the light penetrating through said object to enter said carriage module in a transmissive scanning mode;

wherein said active light source includes a first portion positioned under a light inlet of said light-guiding member and a second portion positioned under said object, and substantially only the light emitted from the first portion of said active light source penetrates through said scanning platform in said transmissive scanning mode.

15. The dual-mode scanning apparatus according to claim 14 wherein said carriage module further comprises a light mask moving to cover said second portion of said active light source in said transmissive scanning mode while moving to expose said second portion of said active light source in said reflective scanning mode.

16. The dual-mode scanning apparatus according to claim 14 wherein said second portion of said active light source is turned off in said transmissive scanning mode while being turned on in said reflective scanning mode.

17. The dual-mode scanning apparatus according to claim 14 wherein said first portion of said active light source includes at least one illuminating unit, and said second portion of said active light source includes at least two illuminating units positioned at opposite sides of said first portion.

18. The dual-mode scanning apparatus according to claim 14 wherein said light-guiding member comprises:

at least one reflective element serving as said light inlet for receiving and then reflecting the light emitted by said active light source in a specified direction; and

a light-guiding plate arranged in said specified direction relative to said reflective element for receiving the light emitted by said active light source and reflected by said reflective element, and scattering the light to penetrate through said object.

19. A dual-mode scanning apparatus capable of scanning both transmissive and reflective objects, comprising:

a scanning platform for placing thereon an object to be scanned;

a carriage module arranged under said scanning platform, and comprising an active light source for emitting light, the light being reflected by said object to enter said carriage module in a reflective scanning mode;

a light inlet for receiving and then reflecting the light emitted by said active light source in a specified direction; and

a light-guiding element arranged in said specified direction relative to said reflective element for receiving the light emitted by said active light source and reflected by said reflective element, and scattering the light to penetrate through said object to enter said carriage module in said transmissive mode,

wherein said active light source includes at least three illuminating units, and a middle one of said three illuminating units is turned off in said transmissive scanning mode in order to prevent said object from direct illumination of said active light source.

20. The dual-mode scanning apparatus according to claim 19 wherein said light inlet is a reflective mirror, and said light-guiding element is a light-dispersion plate.